## Amendments to the Claims

This listing of claims will replace all prior versions, and listings of claims in the application:

## **Listing of Claims:**

Claim 1 (Canceled)

Claim 2 (Currently Amended): A ferroelectric capacitor comprising:

- a bottom electrode;
- a plurality of projection electrodes formed on the bottom electrode;
- a ferroelectric layer formed on the bottom electrode and the projection electrodes; and
  - a top electrode formed on the ferroelectric layer,

wherein a thickness of the ferroelectric layer on the projection electrodes is less than a thickness of the ferroelectric layer on the bottom electrode, and

wherein spacing between central portions of each projection electrode has a range from 10% to 20% of a size of the ferroelectric capacitor.

Claim 3 (Currently Amended): A ferroelectric capacitor comprising:

- a bottom electrode;
- a plurality of projection electrodes formed on the bottom electrode;

a ferroelectric layer formed on the bottom electrode and the projection electrodes; and

a top electrode formed on the ferroelectric layer,

wherein a thickness of the ferroelectric layer on the projection electrodes is less than a thickness of the ferroelectric layer on the bottom electrode, and

wherein a size of each projection electrode has a range from 5% to 10% of a size of the ferroelectric capacitor.

Claim 4 (Withdrawn): The ferroelectric capacitor of claim 2, wherein the top electrode includes a plurality of second projection electrodes, each of the plurality of second projection electrodes facing respective ones of the plurality of projection electrodes.

Claim 5 (Withdrawn): The ferroelectric capacitor of claim 2, wherein the projection electrodes are made of bismuth or bismuth alloy.

Claim 6 (Withdrawn): The ferroelectric capacitor of claim 5, wherein the bottom electrode is made of a metal which includes bismuth.

Claim 7 (Currently Amended): A ferroelectric capacitor comprising:

- a bottom electrode;
- a plurality of projection electrodes formed on the bottom electrode;

a ferroelectric layer formed on the bottom electrode and the projection

electrodes; and

a top electrode formed on the ferroelectric layer,

wherein a thickness of the ferroelectric layer on the projection electrodes is less

than a thickness of the ferroelectric layer on the bottom electrode, and

wherein the projection electrodes are arranged evenly spaced on the bottom electrode.

Claim 8 (Previously Presented): The ferroelectric capacitor of claim 2, wherein the bottom electrode and the projection electrodes are made of a same material.

Claims 9 - 14 (Canceled)

Claim 15 (Withdrawn – Currently Amended): A ferroelectric capacitor comprising:

- a first electrode;
- a second electrode;
- a ferroelectric layer which is sandwiched between the first electrode and the second electrode; and
- a plurality of third electrodes formed evenly spaced between the first electrode and the second electrode, wherein the third electrodes generate polarization.

wherein a thickness of the ferroelectric layer on the third electrodes is less than a

thickness of the ferroelectric layer on the second electrode.

Claim 16 (Withdrawn): The ferroelectric capacitor of claim 15, wherein the third

electrodes are formed on the first electrode.

Claim 17 (Canceled)

Claim 18 (Withdrawn): The ferroelectric capacitor of claim 16, wherein the first

electrode and the third electrodes are made by a same material.

Claim 19 (Withdrawn): The ferroelectric capacitor of claim 16, wherein the third

electrodes are formed on both the first and second electrodes.

Claim 20 (Withdrawn): The ferroelectric capacitor of claim 3, wherein the top electrode

includes a plurality of second projection electrodes, each of the plurality of second

projection electrodes facing respective ones of the plurality of projection electrodes.

Claim 21 (Withdrawn): The ferroelectric capacitor of claim 3, wherein the projection

electrodes are made of bismuth or bismuth alloy.

Claim 22 (Withdrawn): The ferroelectric capacitor of claim 21, wherein the bottom

Page 5 of 12

electrode is made of a metal which includes bismuth.

Claim 23 (Previously Presented): The ferroelectric capacitor of claim 3, wherein the bottom electrode and the projection electrodes are made of a same material.

Claim 24 (Withdrawn): The ferroelectric capacitor of claim 7, wherein the top electrode includes a plurality of second projection electrodes, each of the plurality of second projection electrodes facing respective ones of the plurality of projection electrodes.

Claim 25 (Withdrawn): The ferroelectric capacitor of claim 7, wherein the projection electrodes are made of bismuth or bismuth alloy.

Claim 26 (Withdrawn): The ferroelectric capacitor of claim 25, wherein the bottom electrode is made of a metal which includes bismuth.

Claim 27 (Previously Presented): The ferroelectric capacitor of claim 7, wherein the bottom electrode and the projection electrodes are made of a same material.